

## Healthcare

### ADAPTIVE RADIATION THERAPY HIGHLIGHTS SIEMENS BOOTH AT AAPM 2008

### *ARTISTE Solution Integrates Imaging and Workflow into Comprehensive Portfolio*

**HOUSTON, Texas, July 24, 2008** – Siemens Healthcare

([www.siemens.com/healthcare](http://www.siemens.com/healthcare)) showcases its latest technologies at the 50th Annual Meeting of the American Association of Physicists in Medicine (AAPM) in Houston, July 27-31. Taking center stage at the Siemens booth (#401) is the ARTISTE™ Solution, a linear accelerator engineered specifically for Adaptive Radiation Therapy (ART). Unique in design, ARTISTE is an integrated imaging and workflow solution that offers a comprehensive portfolio of image-guided and advanced treatment delivery protocols, including in-room CT imaging capabilities and a new multileaf collimator, 160 MLC.

The ARTISTE Solution offers clinicians multiple imaging modalities. From Megavoltage (MV) to gold-standard, in-room CT imaging, clinicians can select the optimal imaging application for their treatment approach. Siemens MVision™ Cone Beam Imaging Package delivers remarkable soft-tissue contrast, especially in challenging cases, such as imaging prostheses and with large patients. The CTVision™ CT-on-rails System provides in-room, diagnostic quality imaging; thus opening up opportunities to implement benchmark concepts, such as daily re-planning.

“ARTISTE’s design incorporates an array of proven components that reinforces clinicians’ confidence in adapting protocols for each patient,” said Holger Schmidt, chief executive officer, Oncology Care Systems, Siemens Medical Solutions USA, Inc. “With ARTISTE, IMRT can be delivered within five minutes in most cases.”

For precise patient positioning, the 550 TxT™ Treatment Table meets the growing demand for accuracy and stability, while providing the mechanical strength to accommodate a patient weight capacity of up to 550 pounds.

Recently, ARTISTE has gone clinical in four of the most prominent cancer centers around the world: MAASTRO Clinic in the Netherlands; German Cancer Research Center (DKFZ) in Heidelberg, Germany; St. Vincent's Private Hospital in Sydney, Australia; and Baton Rouge General's Pennington Cancer Center in Louisiana.

### **Virtual Simulation and Motion Management**

Also being demonstrated at the Siemens booth is *syngo*<sup>®</sup> VSim, a virtual simulation of radiotherapy treatment planning. *syngo* VSim supports target and critical structure delineation with isocenter localization; accurately models all structures, radiation beams and linear accelerator parameters; and produces high-quality DRRs, MPRs, MIPs and shaded surface displays to optimize the clinical process.

With a flexible implementation, *syngo* VSim software can be accessed at the CT acquisition console or at post-processing workstations. The simulation tool also provides motion management solutions, such as multiple triggering device support and 4D contouring tools. All these advanced applications support the state-of-the-art Sensation Open platform, Siemens leading-edge offering for CT simulation.

### **Accelerating Cancer Management Workflow**

*syngo* TrueD, a Siemens-exclusive multimodality software solution accelerates the cancer management workflow and offers high-quality biological therapy response assessment. *syngo* TrueD also enables physicians to efficiently compare patient scans from up to three different time points (e.g., pre- and post-therapy). By automatically registering and displaying PET•CT, SPECT•CT, CT or MR images from studies acquired at different times, this advanced application assists physicians in making better informed therapy and follow-up decisions.

Further enhancing ease of use for ARTISTE is Siemens' comprehensive software solution, *syngo* Suite for Oncology, a workflow platform, providing scalable workspaces that enable clinical team members to access data, patient information, and images as needed. The suite also includes:

- *syngo* MultiModality Workplace -- provides multi-modality imaging solutions in one workplace and uses treatment response evaluation application.
- *syngo* RT Oncologist – offers customized physician tool sets and integrates cutting-edge 2D/3D IGRT treatment review tools. (The COHERENCE™ Suite of Oncology workspaces is currently being rebranded to *syngo* Suite for Oncology. *syngo* RT Oncologist may be purchased under the COHERENCE brand name.)
- *syngo* RT Therapist – employs MVision technology for 3D image-guided automated patient positioning, and Adaptive Targeting for IGRT operations for image registration and off-set calculation.

Exclusively distributed by Siemens and on display at the Siemens AAPM booth will be the ImageGrid™ Archive Appliance, which supports ever-increasing storage needs for DICOM RT objects and is ideal for storing treatment plans, contours, treatment reports or any other RT specific objects.

### **About Siemens Healthcare**

The **Siemens Healthcare Sector** is one of the world's largest suppliers to the healthcare industry. The company is a renowned medical solutions provider with core competence and innovative strength in diagnostic and therapeutic technologies as well as in knowledge engineering, including information technology and system integration. With its laboratory diagnostics acquisitions, Siemens Healthcare is the first integrated healthcare company, bringing together imaging and lab diagnostics, therapy, and healthcare information technology solutions, supplemented by consulting and support services. Siemens Healthcare delivers solutions across the entire continuum of care – from prevention and early detection, to diagnosis, therapy and care. Additionally, Siemens Healthcare is the global market leader in innovative hearing instruments. The company employs more than 49,000 people worldwide and operates in 130 countries. In the fiscal year 2007 (Sept. 30), Siemens Healthcare reported sales of €9.85 billion, orders of

€10.27 billion, and group profit of €1.32 billion. Further information can be found by visiting <http://www.siemens.com/healthcare>.

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